

### Abstract

#### Method and device for identifying a data packet in a data stream

The invention relates to a method and a device for identifying a data packet in a data stream, in which by means of a d.c. voltage quota determining circuit (30) the d.c. voltage quota (dc) for a demodulated digital input signal ( $S_{in}$ ) is calculated, in which a k-bit word is allocated to the input signal ( $S_{in}$ ), in that for each symbol of the input signal ( $S_{in}$ ) corresponding to a bit a bit value (1 or 0) is determined by a decoding circuit (37) as a function of the d.c. voltage quota (dc), in which the k-bit word corresponding to the input signal ( $S_{in}$ ) is compared by a comparison and correlation calculating circuit (41) with an expected k-bit synchronisation word in order to determine a correlation value ( $c_v$ ) and in which a packet identification signal ( $P_d$ ) is generated by a correlation value comparison circuit (43) if the correlation value ( $c_v$ ) is greater than a correlation threshold value ( $c_{th}$ ). Calculation of the d.c. voltage quota (dc) is therein repeated continually at least until a packet identification signal ( $P_d$ ) indicates that a data packet is being received.

(Fig. 4)